



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Avagard™ Antiseptic Hand Rub, Ethanol 61% w/w, 9221, 9222

#### Product Identification Numbers

70-2007-2261-2      70-2007-2262-0      AH-0106-1193-9      AH-0106-1194-7

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Hand sanitiser.

For Professional use only.

#### 1.3. Supplier's details

**Address:** 3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113  
**Telephone:** 136 136  
**E Mail:** productinfo.au@mmm.com  
**Website:** www.3m.com.au

#### 1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

### SECTION 2: Hazard identification

This product is classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

#### 2.1. Classification of the substance or mixture

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 2.

Specific Target Organ Toxicity (single exposure): Category 3

#### 2.2. Label elements

The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for

Hazardous Chemicals (Safe Work Australia, December 2011). This information may be different from the actual product label.

### Signal word

Danger

### Symbols

Flame | Exclamation mark |

### Pictograms



### Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

### Precautionary statements

#### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating and lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

#### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

P337 + P313 IF eye irritation persists: Get medical advice/attention.

P370 + P378 In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

#### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

### 2.3. Other assigned/identified product hazards

None known.

**2.4. Other hazards which do not result in classification**

Harmful to aquatic life.

**SECTION 3: Composition/information on ingredients**

This material is a mixture.

<b>Ingredient</b>	<b>CAS Nbr</b>	<b>% by Weight</b>
Ethyl alcohol w/w	64-17-5	50 - 70
Water	7732-18-5	25 - 35
Ethylene glycol polymer	25322-68-3	< 3
Squalane	111-01-3	< 2
Fatty acids	103213-20-3	< 2
Alcohols.	26636-40-8	< 2
Docosyl alcohol	661-19-8	< 2

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**

If exposed, wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye contact**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

**If swallowed**

Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**5.2. Special hazards arising from the substance or mixture**

Closed containers exposed to heat from fire may build pressure and explode.

**Hazardous Decomposition or By-Products****Substance**

Carbon monoxide.  
Carbon dioxide.

**Condition**

During combustion.  
During combustion.

**5.3. Special protective actions for fire-fighters**

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure

demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**Hazchem Code:** •2YE

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. **WARNING !** A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

### 6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid eye contact. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapour accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidising agents.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Ethylene glycol polymer	25322-68-3	AIHA	TWA:10 mg/m <sup>3</sup>	
Ethyl alcohol w/w	64-17-5	ACGIH	STEL:1000 ppm	A3: Confirmed animal carcinogen.
Ethyl alcohol w/w	64-17-5	Australia OELs	TWA(8 hours):1880	

			mg/m3(1000 ppm)	
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ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Sen: Sensitiser

Sk: Absorption through the skin may be a significant source of exposure.

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Under normal use conditions, eye exposure is not expected to be significant enough to require eye protection.

Safety glasses with side shields.

Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

#### Skin/hand protection

No protective gloves required.

#### Respiratory protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection. An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance specifications. For information about respirators, call 3M on 1800 024 464.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	White
Odour	Slight Alcohol
Odour threshold	No data available.
pH	6
Melting point/Freezing point	Not applicable.
Boiling point/Initial boiling point/Boiling range	77.8 °C
Flash point	21 °C
Evaporation rate	1.4 [Ref Std:BUOAC=1]

Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	3.28 % volume
Flammable Limits(UEL)	19 % volume
Vapour pressure	6,666.1 Pa [ @ 20 °C ] [Details: MITS data]
Vapor Density and/or Relative Vapor Density	1.6 [Ref Std: AIR=1]
Density	No data available.
Relative density	0.83 [Ref Std: WATER=1]
Water solubility	Moderate
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Autoignition temperature	798.9 °C
Decomposition temperature	No data available.
Viscosity/Kinematic Viscosity	50,000 mPa-s - 250,000 mPa-s
Volatile organic compounds (VOC)	496 g/l
Percent volatile	90 % weight
VOC less H <sub>2</sub> O & exempt solvents	630 g/l
Molecular weight	Not applicable.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

### 10.2 Chemical stability

Stable.

### 10.3. Conditions to avoid

Heat.

Sparks and/or flames.

### 10.4. Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.5 Incompatible materials

Strong oxidising agents.

### 10.6 Hazardous decomposition products

#### Substance

None known.

#### Condition

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

**Inhalation**

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

**Skin contact**

Contact with the skin during product use is not expected to result in significant irritation.

**Eye contact**

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**Ingestion**

May cause additional health effects (see below).

**Additional Health Effects:****Single exposure may cause target organ effects:**

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

**Additional information:**

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Ethyl alcohol w/w	Dermal	Rabbit	LD50 > 15,800 mg/kg
Ethyl alcohol w/w	Inhalation-Vapour (4 hours)	Rat	LC50 124.7 mg/l
Ethyl alcohol w/w	Ingestion	Rat	LD50 17,800 mg/kg
Alcohols.	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
Alcohols.	Ingestion	similar compounds	LD50 estimated to be 2,000 - 5,000 mg/kg
Ethylene glycol polymer	Dermal	Rabbit	LD50 > 20,000 mg/kg
Ethylene glycol polymer	Ingestion	Rat	LD50 32,770 mg/kg
Docosyl alcohol	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Docosyl alcohol	Ingestion	Rat	LD50 > 2,000 mg/kg
Fatty acids	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Squalane	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Fatty acids	Ingestion	Rat	LD50 > 5,000 mg/kg
Squalane	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
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Overall product	Rat	No significant irritation
Ethyl alcohol w/w	Rabbit	No significant irritation
Ethylene glycol polymer	Rabbit	Minimal irritation
Fatty acids	Rabbit	No significant irritation

### Serious Eye Damage/Irritation

Name	Species	Value
Ethyl alcohol w/w	Rabbit	Severe irritant
Ethylene glycol polymer	Rabbit	Mild irritant
Fatty acids	Rabbit	No significant irritation

### Skin Sensitisation

Name	Species	Value
Ethyl alcohol w/w	Human	Not classified
Ethylene glycol polymer	Guinea pig	Not classified

### Respiratory Sensitisation

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Germ Cell Mutagenicity

Name	Route	Value
Ethyl alcohol w/w	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethyl alcohol w/w	In vivo	Some positive data exist, but the data are not sufficient for classification
Ethylene glycol polymer	In Vitro	Not mutagenic
Ethylene glycol polymer	In vivo	Not mutagenic

### Carcinogenicity

Name	Route	Species	Value
Ethyl alcohol w/w	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Ethylene glycol polymer	Ingestion	Rat	Not carcinogenic

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Overall product	Dermal	Not classified for female reproduction	Rat	NOAEL 0.3 mL	during gestation
Overall product	Dermal	Not classified for male reproduction	Rat	NOAEL 0.15 mL	93 days
Overall product	Dermal	Not classified for development	Rat	NOAEL 0.3 mL	during gestation
Ethyl alcohol w/w	Inhalation	Not classified for development	Rat	NOAEL 38 mg/l	during gestation
Ethyl alcohol w/w	Ingestion	Not classified for development	Rat	NOAEL 5,200 mg/kg/day	premating & during gestation
Ethylene glycol polymer	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,125 mg/kg/day	during gestation
Ethylene glycol	Ingestion	Not classified for	Rat	NOAEL	5 days



polymer		male reproduction		5699 +/-1341 mg/kg/day	
Ethylene glycol polymer	Not specified.	Not classified for reproduction and/or development		NOEL N/A	
Ethylene glycol polymer	Ingestion	Not classified for development	Mouse	NOAEL 562 mg/animal/day	during gestation

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Ethyl alcohol w/w	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
Ethyl alcohol w/w	Inhalation	central nervous system depression	Not classified	Human and animal	NOAEL not available	
Ethyl alcohol w/w	Ingestion	central nervous system depression	Not classified	Multiple animal species	NOAEL not available	
Ethyl alcohol w/w	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg	
Ethylene glycol polymer	Inhalation	respiratory irritation	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks

### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Overall product	Dermal	heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   bone marrow   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system	Not classified	Rat	NOAEL 0.15 mL	93 days
Ethyl alcohol w/w	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 124 mg/l	365 days
Ethyl alcohol w/w	Inhalation	hematopoietic system   immune system	Not classified	Rat	NOAEL 25 mg/l	14 days
Ethyl alcohol	Ingestion	liver	Some positive	Rat	LOAEL 8,000	4 months

w/w			data exist, but the data are not sufficient for classification		mg/kg/day	
Ethyl alcohol w/w	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg/day	7 days
Ethylene glycol polymer	Inhalation	respiratory system	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks
Ethylene glycol polymer	Ingestion	kidney and/or bladder   heart   endocrine system   hematopoietic system   liver   nervous system	Not classified	Rat	NOAEL 5,640 mg/kg/day	13 weeks

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Exposure Levels**

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

**Interactive Effects**

Not determined.

## SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity****Acute aquatic hazard:**

GHS Acute 3: Harmful to aquatic life.

**Chronic aquatic hazard:**

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Ethyl alcohol w/w	64-17-5	Fathead minnow	Experimental	96 hours	LC50	14,200 mg/l
Ethyl alcohol w/w	64-17-5	Fish	Experimental	96 hours	LC50	11,000 mg/l
Ethyl alcohol w/w	64-17-5	Green algae	Experimental	72 hours	EC50	275 mg/l
Ethyl alcohol w/w	64-17-5	Water flea	Experimental	48 hours	LC50	5,012 mg/l
Ethyl alcohol w/w	64-17-5	Green algae	Experimental	72 hours	ErC10	11.5 mg/l
Ethyl alcohol w/w	64-17-5	Water flea	Experimental	10 days	NOEC	9.6 mg/l
Ethylene glycol polymer	25322-68-3	Activated sludge	Experimental	N/A	EC50	>1,000 mg/l
Ethylene glycol polymer	25322-68-3	Atlantic Salmon	Experimental	96 hours	LC50	>1,000 mg/l
Alcohols.	26636-40-8	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Docosyl alcohol	661-19-8	Green algae	Analogous	96 hours	No tox obs at lmt	>100 mg/l

			Compound		of water sol	
Docosyl alcohol	661-19-8	Sediment organism	Analogous Compound	6 days	EC50	>1,000 mg/kg (Dry Weight)
Docosyl alcohol	661-19-8	Water flea	Analogous Compound	48 hours	No tox obs at lmt of water sol	>100 mg/l
Docosyl alcohol	661-19-8	Rainbow trout	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Docosyl alcohol	661-19-8	Green algae	Analogous Compound	96 hours	No tox obs at lmt of water sol	>100 mg/l
Docosyl alcohol	661-19-8	Water flea	Analogous Compound	21 days	No tox obs at lmt of water sol	>100 mg/l
Docosyl alcohol	661-19-8	Bacteria	Analogous Compound	30 minutes	EC50	>10,000 mg/l
Fatty acids	103213-20-3	Bacteria	Experimental	16 hours	EL50	>10,000 mg/l
Fatty acids	103213-20-3	Common Carp	Experimental	96 hours	LC50	>100 mg/l
Squalane	111-01-3	Green algae	Experimental	72 hours	EC50	>100 mg/l
Squalane	111-01-3	Water flea	Experimental	48 hours	LC50	>100 mg/l
Squalane	111-01-3	Zebra Fish	Experimental	96 hours	LC50	>100 mg/l
Squalane	111-01-3	Green algae	Experimental	72 hours	NOEC	100 mg/l

## 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Ethyl alcohol w/w	64-17-5	Experimental Biodegradation	14 days	BOD	89 %BOD/ThOD	OECD 301C - MITI test (I)
Ethylene glycol polymer	25322-68-3	Experimental Biodegradation	28 days	BOD	53 %BOD/ThOD	OECD 301C - MITI test (I)
Alcohols.	26636-40-8	Data not available-insufficient	N/A	N/A	N/A	N/A
Docosyl alcohol	661-19-8	Experimental Biodegradation	28 days	CO2 evolution	87.5 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Fatty acids	103213-20-3	Experimental Biodegradation	28 days	CO2 evolution	5.5 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Squalane	111-01-3	Experimental Biodegradation	28 days	CO2 evolution	77 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2

## 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Ethyl alcohol w/w	64-17-5	Experimental Bioconcentration		Log Kow	-0.35	
Ethylene glycol polymer	25322-68-3	Estimated Bioconcentration		Bioaccumulation factor	2.3	
Alcohols.	26636-40-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Docosyl alcohol	661-19-8	Modeled Bioconcentration		Bioaccumulation factor	10	Catalogic™
Docosyl alcohol	661-19-8	Experimental Bioconcentration		Log Kow	8.3	
Fatty acids	103213-20-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Squalane	111-01-3	Modeled Bioconcentration		Bioaccumulation factor	7.4	Catalogic™
Squalane	111-01-3	Experimental Bioconcentration		Log Kow	5.49	similar to OECD 107

#### 12.4. Mobility in soil

Please contact manufacturer for more details

#### 12.5 Other adverse effects

No information available.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility.

### SECTION 14: Transport Information

#### Australian Dangerous Goods Code (ADG) - Road/Rail Transport

UN No.: UN1170

Proper shipping name: ETHANOL SOLUTION

Class/Division: 3

Sub Risk: Not applicable.

Packing Group: II

Special Instructions: Limited quantity may apply

Hazchem Code: •2YE

IERG: 14

#### International Air Transport Association (IATA) - Air Transport

UN No.: UN1170

Proper shipping name: ETHANOL SOLUTION

Class/Division: 3

Sub Risk: Not applicable.

Packing Group: II

Special Instructions: Forbidden packaging does not meet requirements for this mode of transport

#### International Maritime Dangerous Goods Code (IMDG)- Marine Transport

UN No.: UN1170

Proper shipping name: ETHANOL SOLUTION

Class/Division: 3

Sub Risk: Not applicable.

Packing Group: II

Marine Pollutant: Not applicable.

Special Instructions: Limited quantity may apply

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### Australian Inventory Status:

This product is regulated by the Therapeutics Goods Administration and is exempt from compliance with the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

### SECTION 16: Other information

#### Revision information:

Complete document review.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Safety Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

Greenguard ® is a United States based program. The 'Low VOC' reference related to United States Federal and State regulations exemptions for some solvents.

**3M Australia SDSs are available at [www.3m.com.au](http://www.3m.com.au)**